

NEPTUNUS-TALAMEX TECHNISCHE INFO TOUW

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Comparing summary of synthetic fibres

	Material							
	Polyamide (PA) 6 und 6.6	Polyester (PES)	Polypropylene (PP) multifilament highly resilient	Polyethylene (PE)	Polyethylene highly resilient (HMPE)	Aramid	LCP	PBO
Brand-name	Perlon Nylon	Dioen Dacron			Dyneema® Spectra	Twaron Kevlar Technora	Vectran	Zylon
Tenacity of yarn								
CN/dtex	7 – 8	7 – 8,4	app. 7	app. 4,5	28 – 38	20 – 25	22 – 25	app. 37
Specific gravity								
kg/dm³	1,14	1,38	0,91	0,96	0,96	1,44	1,41	1,52
Tenacity-reduction through humidity								
%	5 – 10	0	0	0	0	0	0	0
Water absorption								
%	1 – 7	0,5 – 2	0	0	0	2 – 5	1	0,6
Knot tenacity								
%	60 – 65	55 – 60	55 – 65	50 – 60	35 – 50	30 – 40	30 – 35	35 – 55
Light resistance								
%	good	very good	only good when equipped	good	good	bad	bad	bad
Breaking stretching								
%	16 – 27	10 – 16	12 – 20	15 – 30	3,8	2 – 4	3,3	2,5
Resistance to abrasion	very good	very good	fair	fair	good	adequate	good	bad